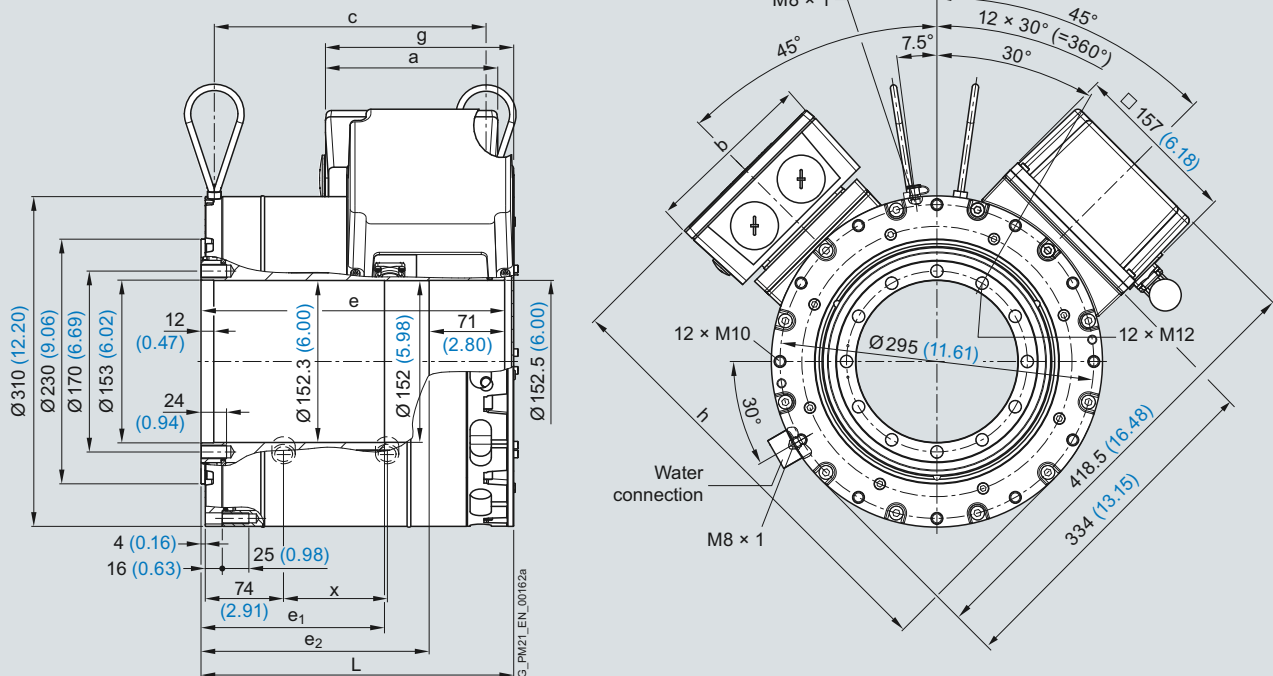


Dimensional drawings

For motor Dimensions in mm (inches)

									Terminal box type			
Shaft height	Type	DIN IEC L ¹⁾	c	e	e ₁	e ₂	x		gk230	gk420		
									g ²⁾³⁾	h	g ³⁾	h
SIMOTICS T-1FW3 complete torque motors, IM B14 type of construction, hollow shaft												
150	1FW3150	260.5 (10.26)	226 (8.90)	256 (10.08)	141 (5.55)	185 (7.28)	68 (2.68)	159.5 (6.38)	393 (15.47)	–	–	
	1FW3152	317.5 (12.50)	283 (11.14)	313 (12.32)	198 (7.80)	242 (9.53)	125 (4.92)			–	–	
	1FW3154	366.5 (14.43)	332 (13.07)	362 (14.52)	247 (9.72)	291 (11.46)	174 (6.85)			–	–	
	1FW3155	418.5 (16.48)	384 (15.12)	414 (16.30)	299 (11.77)	343 (13.50)	226 (8.90)			177 (6.97)	410 (16.14)	
	1FW3156	471.5 (18.56)	437 (17.20)	467 (18.39)	352 (13.86)	396 (15.59)	279 (10.98)					

6



Dimensions a and b vary in accordance with the arrangement of the terminal box (see page 6/83 for dimensions).

1) Version without encoder: + 0.5 mm (0.02 in).

2) Dimension varies in accordance with terminal box arrangement – for crosswise right/left: 154.5 mm (6.08 in).

3) Version without encoder: + 2.5 mm (0.10 in).

SIMOTICS linear and torque motors

Dimensional drawings

SIMOTICS T-1FW3 complete torque motors with/without DRIVE-CLiQ – Water cooling

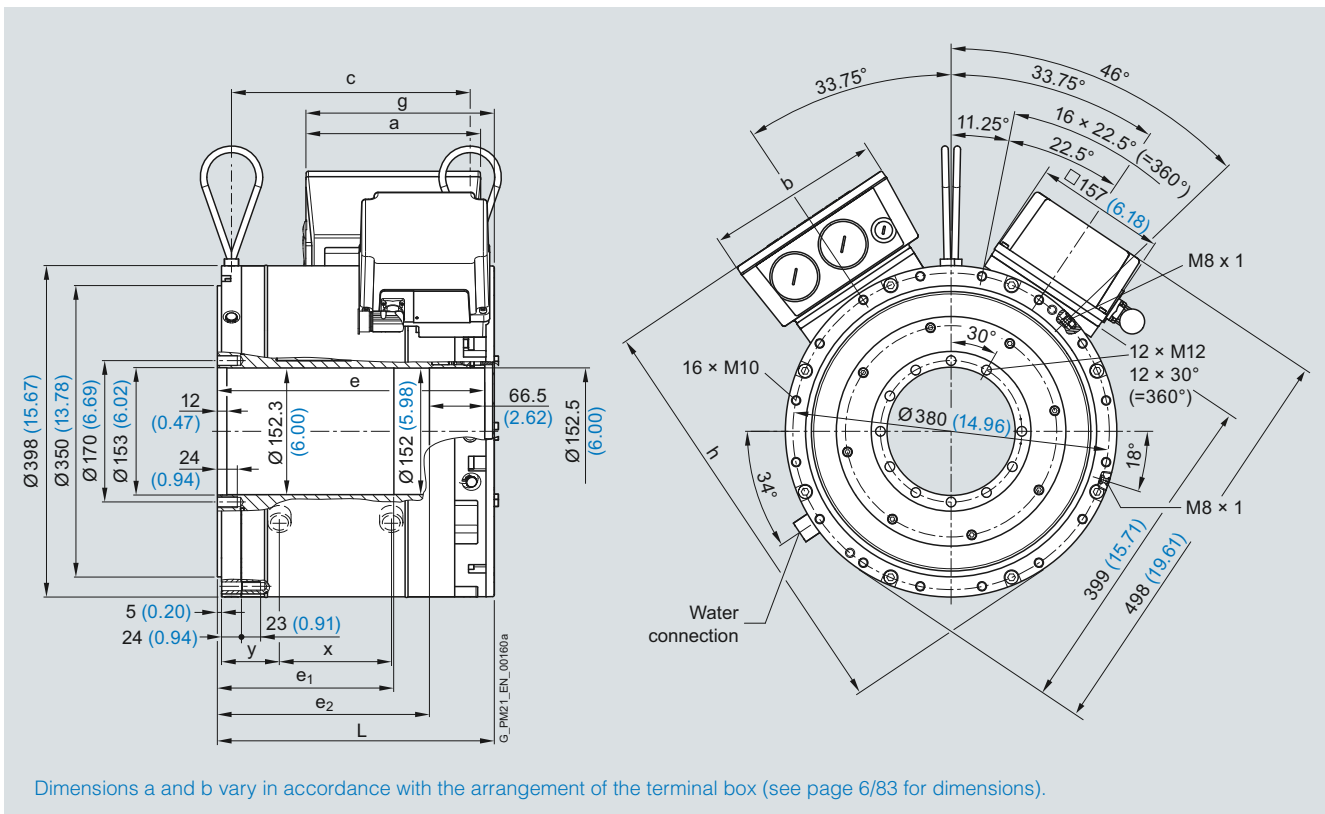
Dimensional drawings

For motor

Dimensions in mm (inches)

										Terminal box type					
Shaft height	Type	DIN IEC	L	c	e	e ₁	e ₂	x	y	gk230	gk420		gk630		
										g ¹⁾	h	g	h	g	h
SIMOTICS T-1FW3 complete torque motors, IM B14 type of construction, hollow shaft															
200	1FW3201		235.5 (9.27)	194.5 (7.66)	229 (9.02)	120 (4.72)	162.5 (6.40)	48.5 (1.91)	67.5 (2.66)	158 (6.22)	474 (18.66)	–	–	–	–
	1FW3202		281.5 (11.08)	240.5 (9.47)	275 (10.83)	166 (6.54)	208.5 (8.21)	94.5 (3.72)				175 (6.89)	490 (19.29)	–	–
	1FW3203		328 (12.91)	287 (11.30)	321.5 (12.66)	212 (8.35)	255 (10.04)	137 (5.39)	69.5 (2.74)					–	–
	1FW3204		397 (15.63)	356 (14.02)	390.5 (15.37)	281 (11.06)	324 (12.76)	206 (8.11)						226 (8.90)	508 (20.00)
	1FW3206		489.5 (19.27)	448.5 (17.66)	483 (19.02)	374 (14.72)	416.5 (16.40)	298.5 (11.75)		–	–				
	1FW3208		604.5 (23.80)	563.5 (22.18)	598 (23.54)	489 (19.25)	531.5 (20.93)	413.5 (16.28)		–	–				

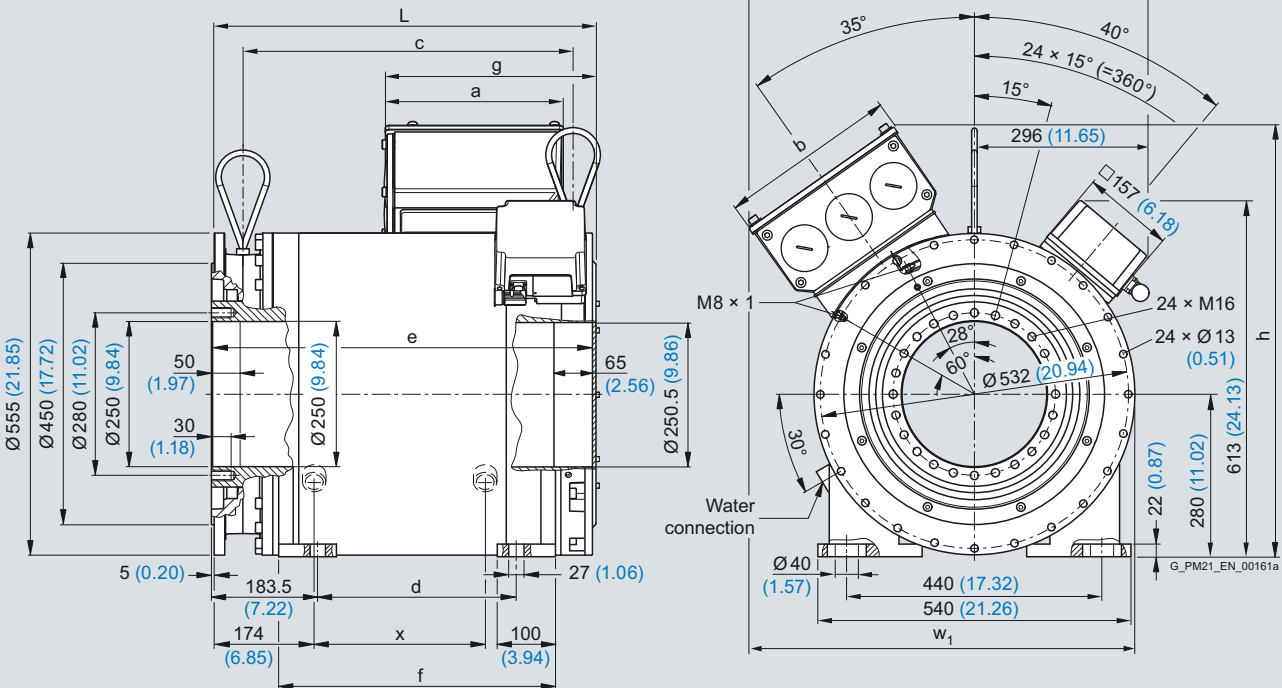
6



¹⁾ Dimension varies in accordance with terminal box arrangement – for crosswise right/left: 153 mm (6.02 in).

Dimensional drawings

For motor		Dimensions in mm (inches)							Terminal box type							
Shaft height	Type	DIN IEC	L	c	d	e	f	x	1XB7700				1XB7712			
									g	h	w	w ₁	g ¹⁾	h ²⁾	w ³⁾	w ₁ ⁴⁾
SIMOTICS T-1FW3 complete torque motors, IM B35 type of construction, hollow shaft																
280	1FW3281		574 (22.60)	483.5 (19.04)	258 (10.16)	571 (22.48)	393 (15.47)	217 (8.54)	363 (14.29)	743 (29.25)	684 (26.93)	665 (26.18)	–	–	–	–
	1FW3283		685.5 (26.99)	568 (22.36)	342.5 (13.48)	655.5 (25.81)	477.5 (18.80)	301.5 (11.87)					–	–	–	–
	1FW3285		784.5 (30.98)	694 (27.32)	468.5 (18.44)	781.5 (30.77)	603.5 (23.76)	427.5 (16.83)					354 (13.94)	836 (32.91)	764 (30.08)	744 (29.29)
	1FW3287		953 (37.52)	862.5 (33.96)	637 (25.08)	950 (37.40)	772 (30.39)	596 (23.46)								



Dimensions a and b vary in accordance with the arrangement of the terminal box (see page 6/83 for dimensions).

- ¹⁾ Dimension varies in accordance with terminal box arrangement – for crosswise right/left: 369 mm (14.53 in) – for NDE: 385 mm (15.16 in).
- ²⁾ Dimension varies in accordance with terminal box arrangement – for crosswise right: 828 mm (32.60 in) – for crosswise left: 846 mm (33.31 in).
- ³⁾ Dimension varies in accordance with terminal box arrangement – for crosswise right: 777 mm (30.59 in) – for crosswise left: 751 mm (29.57 in).
- ⁴⁾ Dimension varies in accordance with terminal box arrangement – for crosswise right: 758 mm (29.84 in) – for crosswise left: 732 mm (28.82 in).

SIMOTICS linear and torque motors

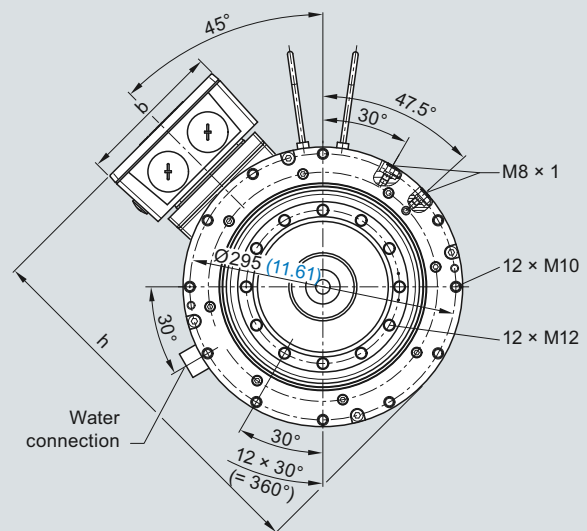
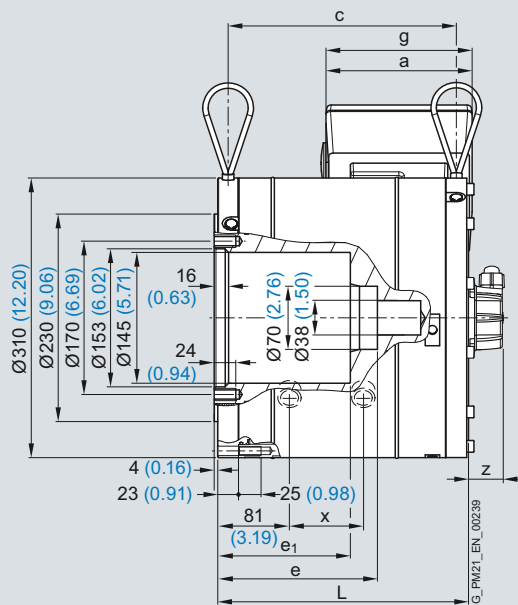
Dimensional drawings

SIMOTICS T-1FW3 complete torque motors with/without DRIVE-CLiQ – Water cooling

Dimensional drawings

For motor Dimensions in mm (inches)

								Terminal box type				
Shaft height	Type	DIN IEC	L	c	e	e ₁	x	z ¹⁾	gk230	gk240		
									g ²⁾	h	g	h
SIMOTICS T-1FW3 complete torque motors, IM B14 type of construction, plug-on shaft												
150	1FW3150		248.5 (9.78)	223.5 (8.80)	151.5 (5.96)	121.5 (4.78)	68 (2.68)	38 (1.50)	140.5 (5.53)	393 (15.47)	–	–
	1FW3152		305.5 (12.03)	280.5 (11.04)	204.5 (8.05)	174.5 (6.88)	125 (4.92)				–	–
	1FW3154		354.5 (13.96)	329.5 (12.97)	255 (10.04)	225 (8.86)	174 (6.85)				–	–
	1FW3155		406.5 (16.00)	381.5 (15.02)	307 (12.09)	277 (10.91)	226 (8.90)				158 (6.22)	409 (16.10)
	1FW3156		459.5 (18.09)	434.5 (17.11)	360 (14.17)	330 (12.99)	279 (10.98)					



Dimensions a and b vary in accordance with the arrangement of the terminal box (see page 6/83 for dimensions).

¹⁾ Encoder without DRIVE-CLiQ: 43 mm (1.69 in).

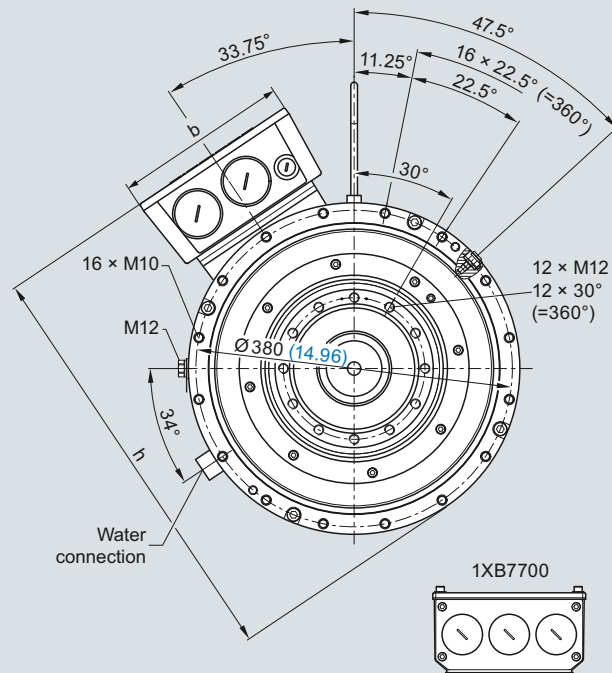
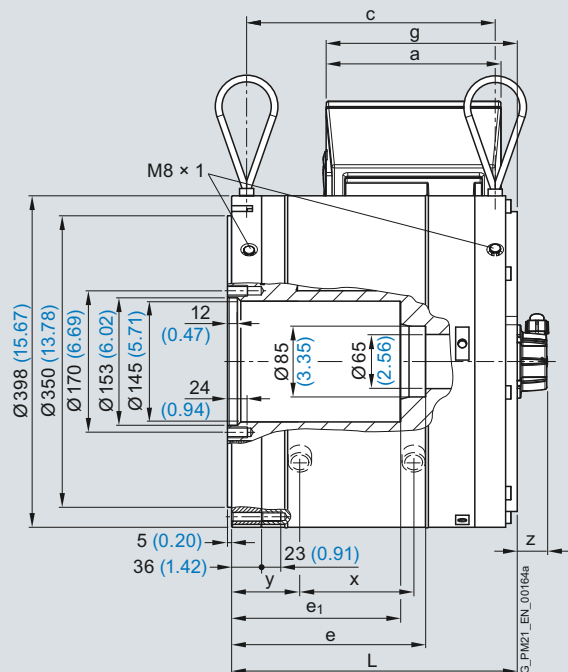
²⁾ Dimension varies in accordance with terminal box arrangement – for NDE/crosswise right/left: 135.5 mm (5.33 in).

Dimensional drawings

For motor

Dimensions in mm (inches)

									Terminal box type							
									gk230		gk420		gk630		1XB7700	
Shaft height	Type	DIN IEC L	c	e	e ₁	x	y	z ¹⁾	g ²⁾	h	g	h	g	h	g	h
SIMOTICS T-1FW3 complete torque motors, IM B14 type of construction, plug-on shaft																
200	1FW3201	250.5 (9.86)	206 (8.11)	140.5 (5.53)	110.5 (4.35)	48.5 (1.91)	79.5 (3.13)	36 (1.42)	159 (6.26)	475 (18.70)	179 (7.05)	491 (19.33)	—	—	—	—
	1FW3202	296.5 (11.67)	252 (9.92)	187 (7.36)	157 (6.18)	94.5 (3.72)							—	—	—	—
	1FW3203	343 (13.50)	298.5 (11.75)	233 (9.17)	203 (7.99)	137 (5.39)	81.5 (3.21)						230 (9.06)	507 (19.96)	—	—
	1FW3204	412 (16.22)	367.5 (14.47)	302 (11.89)	272 (10.71)	206 (8.11)									—	—
	1FW3206	504.5 (19.86)	460 (18.11)	395 (15.55)	365 (14.37)	298.5 (11.75)			—	—					306.5 (12.07)	580 (22.83)
	1FW3208	619.5 (24.39)	575 (22.74)	509.5 (20.06)	479.5 (18.88)	413.5 (16.28)			—	—						



Dimensions a and b vary in accordance with the arrangement of the terminal box (see page 6/83 for dimensions).

¹⁾ Encoder without DRIVE-CLiQ: 41 mm (1.61 in).

²⁾ Dimension varies in accordance with terminal box arrangement – for crosswise right/left: 156.5 mm (6.16 in).

SIMOTICS linear and torque motors

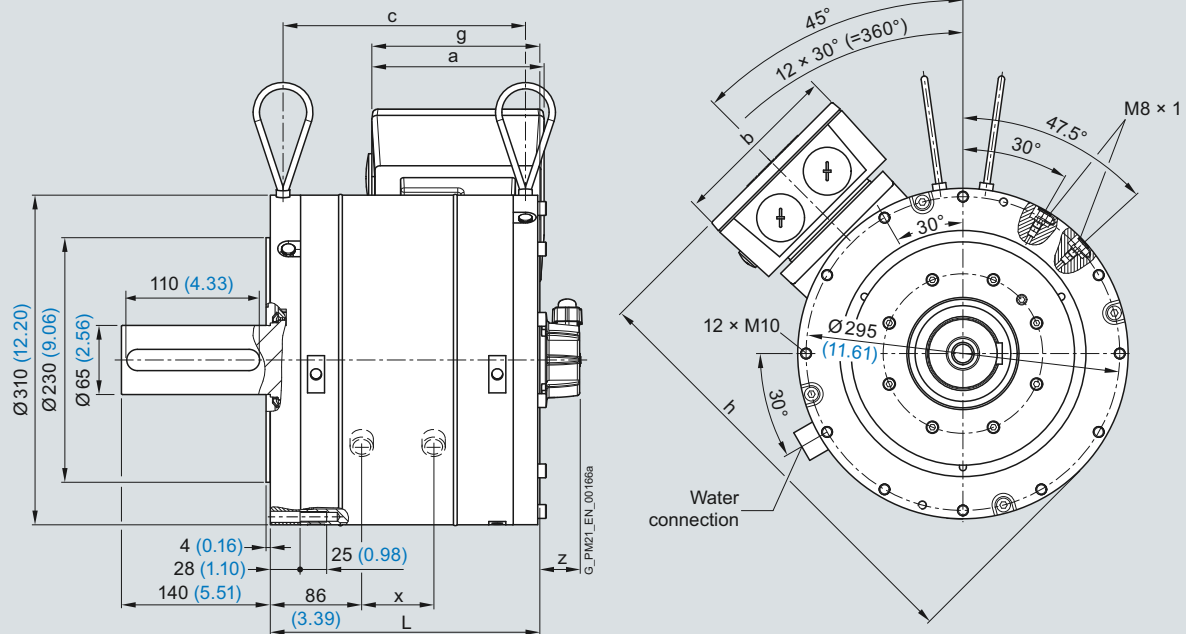
Dimensional drawings

SIMOTICS T-1FW3 complete torque motors with/without DRIVE-CLiQ – Water cooling

Dimensional drawings

For motor Dimensions in mm (inches)

						Terminal box type			
Shaft height	Type	DIN IEC L	c	x	z ¹⁾	gk230	gk420		
						g ²⁾	h	g	h
SIMOTICS T-1FW3 complete torque motors, IM B14 type of construction, solid shaft									
150	1FW3150	253.5 (9.98)	228 (8.98)	68 (2.68)	38 (1.50)	140.5 (5.53)	393 (15.47)	–	–
	1FW3152	283 (11.14)	257.5 (10.14)	97.5 (3.84)				–	–
	1FW3154	338 (13.31)	312.5 (12.30)	152.5 (6.00)				–	–
	1FW3155	386.5 (15.22)	361 (14.21)	201 (7.91)				158 (6.22)	409 (16.10)
	1FW3156	440.5 (17.34)	415 (16.34)	255 (10.04)					



Dimensions a and b vary in accordance with the arrangement of the terminal box (see page 6/83 for dimensions).

¹⁾ Encoder without DRIVE-CLiQ: 43 mm (1.69 in).

²⁾ Dimension varies in accordance with terminal box arrangement – for NDE/crosswise right/left: 135.5 mm (5.33 in).

